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SynKraft® M

A high-quality insulating material based on calandered 100 % unbleached sulphate wood pulp.

Attributes

Machine pressboard displays excellent flexibility, good tensile and compressive strength, good compatibility with dip and trickle resins and good impregnating properties.

Application

Pressboard is a classic insulating material for electrical equipment and is commonly used in transformers, but also in electrical motors at reduced thermal loads. Application ranges from slot insulation for stators and rotors, through wedges in electric motors to core, interlayer and final insulation for transformers.

Standards

- Class A (105 °C) insulating material acc. IEC 60085 / VDE 0530 part 1
- Test standard IEC 60641-2
- Sample conditioning according to standard atmosphere 23/50

Delivery forms

Total thickness in µm:

- rolled goods (PSP M3020) 100, 150, 200, 250, 300, 400, 500, 800, 1000
- sheet goods (PSP M3010) 100 µm up to 3.0 mm

Machine pressboard can be supplied:

- in slit rolls from widths of 6 mm (depending on thickness)
- in rolls (PSP M3020) in widths of approx. 640 or 1280 mm
- overall diameter of the slit rolls / rolls is optionally approx. 240, 330 or 450 mm
- in sheets (PSP M3010) depending on the thickness 640 x 800 mm or 800 x 1280 mm, other sheets available on request

Wrap:

- depth approx. 1 to 12 mm, distance approx. 1 to 10 mm
- from widths of 10 to 240 mm and up to thickness of 0.35 mm

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Updated 07/21

SynKraft® is a registered trademark of SynFlex.

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Mechanical	Unit of measure	SynKraft® M 3010 (sheets)	SynKraft® M 3020 (rolls)
Thickness tolerance	%	± 7.5%	± 10%
Density	g/cm³	1.2 - 1.3	1.15
Tensile strength (unfold) longitudinal	N/mm²	≥ 50	70
Tensile strength (unfold) transversal	N/mm²	≥ 40	40
Elongation at break (unfold) longitudinal	%	5.5	4
Elongation at break (unfold) transversal	%	8	10
Moisture content	max. %	8	8
Combustion residue	max. %	2	1.5
Shrinkage longitudinal	%	-	0.7
Shrinkage transversal	%	-	1.2

Electrical	Unit of measure	SynKraft® M 3010 (sheets)	SynKraft® M 3020 (rolls)
Dielectric strength	kV/mm	14.6	11

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